

Figure 1

[illegible]

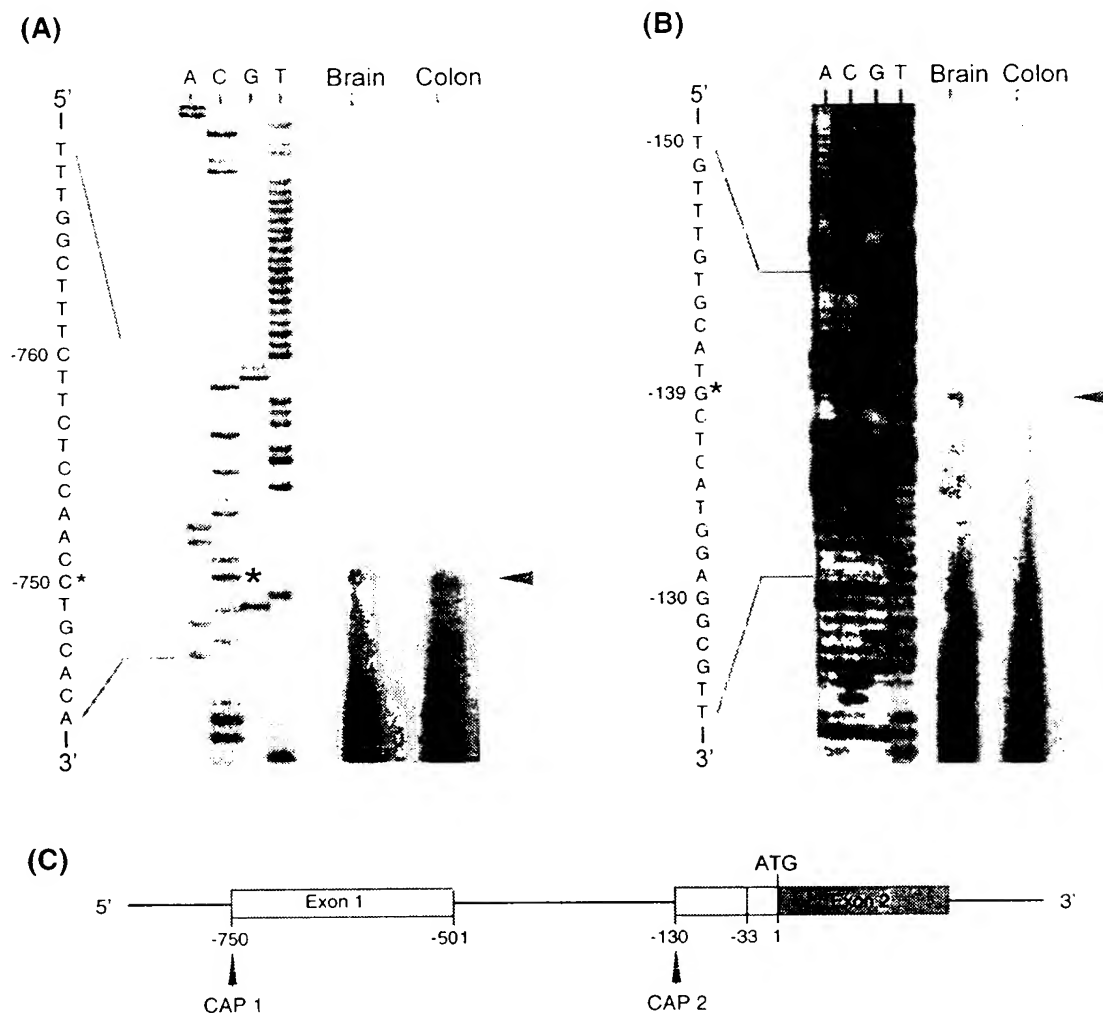


Figure 3

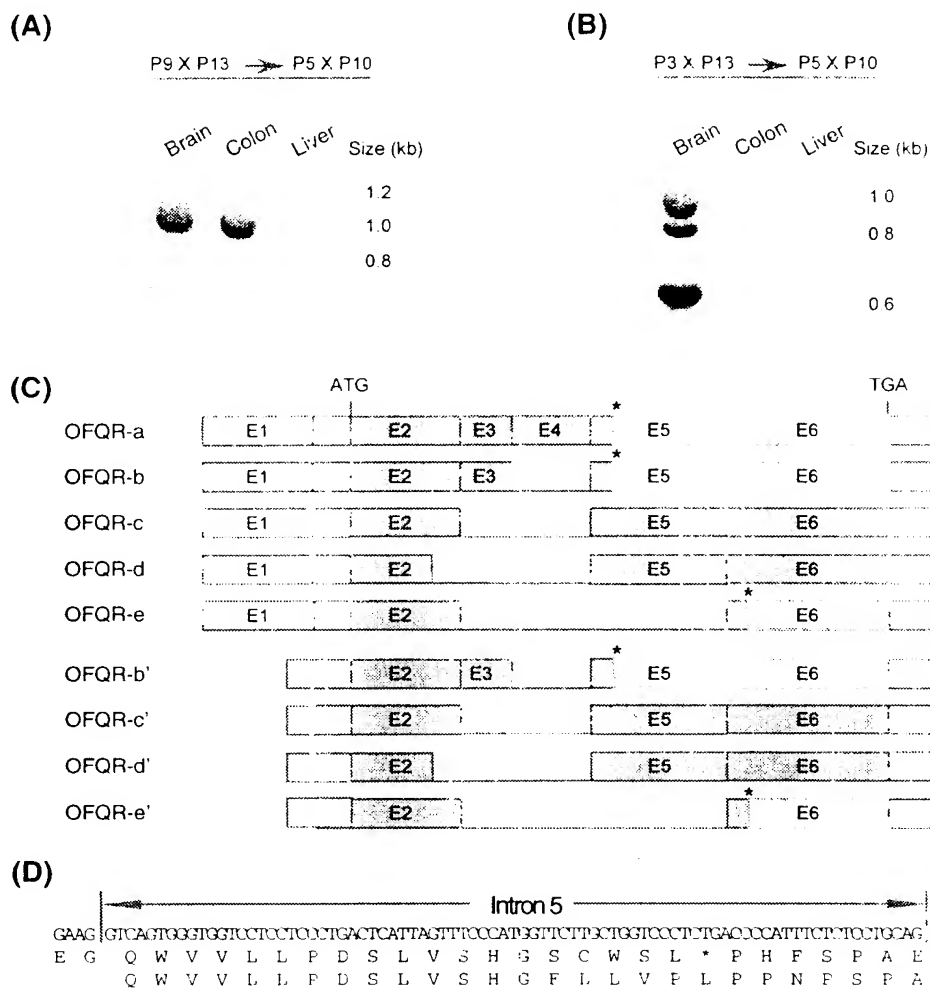


Figure 4

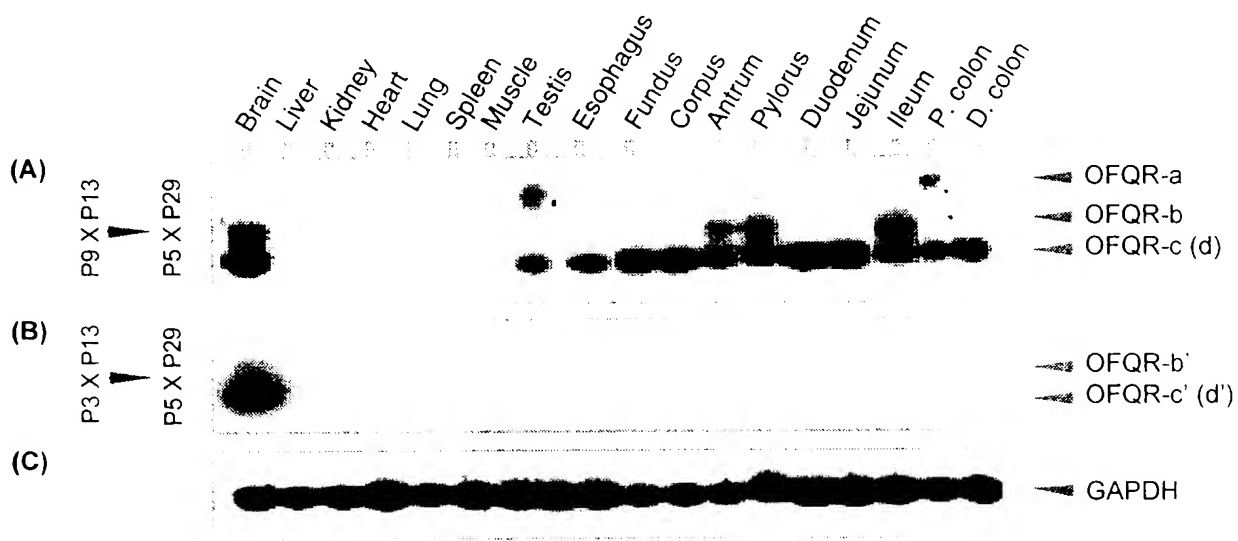


Figure 5

Figure 6
SEQ ID NO:9

| | | | | | | |
|------|-------------|-------------|-------------|-------------|-------------|------------|
| 1 | tgtgtgcccc | tctgcccaatt | taagcatgtt | accagcattc | ccatcgtttc | caaagtctga |
| 61 | gcccttgaga | ctcggagacg | cacgtgaaag | actactttag | ggatatagag | actctgtacg |
| 121 | aggtgcagga | actctctggg | ggtttgtgtg | ccagcttttg | ccgggggttg | catggggatg |
| 181 | aaaaaggaag | tgatggaagg | gcaggagag | agagagagag | agagagagag | agagagagag |
| 241 | agagagagag | agagagagca | acagagagt | catacttatg | tgctatatat | ctaggggcct |
| 301 | ttctctgttc | ttgcctgttc | ccacactagt | tcacatcttg | tttgtatctt | tctctttgtg |
| 361 | cctgaatgca | ccttgtgggt | tgtatatgtg | atccttgtgt | gcactctctga | gcacatatcc |
| 421 | cttgtgtctc | tgtatctcta | aactgtgcct | gtctgggtac | ctctttgtat | gttctgttta |
| 481 | tttgcaggaa | tgtgtcctca | tgtgtctcct | tgagtgtcca | tgtgtctccg | agaacggaga |
| 541 | gacaagtect | tggagacagc | ttgggatgct | gagtcctggg | gtgtctgtct | gctctggcct |
| 601 | tttctggttg | gacaggtatc | ctagcaacac | ttctgtgagt | tgcctagcaa | ccagggtccc |
| 661 | atccttagag | aaagagcagg | gtctggctgt | atgtgggagg | tctggctctc | attcagtcga |
| 721 | gacaggaaaa | acaaacctat | gatttgatga | tgactagaga | ctcagcatag | ggcccttagc |
| 781 | ctacatgacc | ttaaacttatg | gtttttttct | cagtggactg | tgctcccca | ccccaccccc |
| 841 | cccggtgctg | caaagaagga | ggcccttagg | agcttagtat | ctctgtgttt | tctaagatct |
| 901 | aattctggga | tttggtctgt | gtgtagcttc | aagtgaccag | caaacctggc | ttccccttat |
| 961 | ccctgccatg | ttgacaggca | gtccagact | tcagaggcgt | gatgctttca | tttgtgtgag |
| 1021 | gataatatgg | gtggcagtgg | ccatgtgtag | tgggggttcc | tgggttcagt | tttgtcttga |
| 1081 | gcttagtgca | cattaggtat | aaacagcaca | tagtagactc | agggcagtgc | tgggtccaca |
| 1141 | gtccagacaa | tctcttgttt | attcgcaaga | aggcctttac | atggagaatt | agttgggtca |
| 1201 | ggatattgct | atcactgtgg | tactctaccc | tattggacac | cggctgaggg | cagttctggg |
| 1261 | taggaaagct | agcaaaatct | ggctgtgtct | cagtgggtgt | agcacatgcc | tttaatccta |
| 1321 | gcattcagga | agcagaggca | gatgtgtctc | taagtcttag | gacagccaag | gctacacaga |
| 1381 | caaactctgt | ctctaacctg | ttaaactccc | caaacaaaac | aaaacaaaac | agagcaaagc |
| 1441 | aaagcaaagc | aaaacaaaac | aaaacaacat | tttcagagtgt | tggagcctca | cgtctacttc |
| 1501 | tgggtgagca | tttctctgta | tacatcttga | atgtgttctt | gtgtctaagg | ctgtgcgtgt |
| 1561 | atgtgtgtct | gaattcctgt | tcatgtctct | atttttgtgt | tcatggatgt | ccccattgtg |
| 1621 | tgctctaggg | cctgagtggt | tttgtgttgg | gtgagcccat | cacattatat | gtttgttaat |
| 1681 | cttttggtct | ctacttggtg | tggagcctag | gggttctggg | ctggtaatct | tccttttttt |
| 1741 | tttttttttt | tggctttctt | ctccaacctg | cacagccctt | ccttctctca | gccgcagcct |
| 1801 | tctgcccctc | ccccttcttg | ctgccgcacc | ggctgctgcg | tctagtcaat | atcttatctt |
| 1861 | ccgagcagga | gctaggagcc | attcccagcc | gcagcagacc | ccaatctaga | gtgagagtca |
| 1921 | ttgtctcagtc | cactgtgtct | ctgcctgccc | gcctttctgc | taagcattgg | ggctattttt |
| 1981 | ggcccagctt | ctgaagaggc | tgtgtgtgcc | gttgagggtg | agaggggtct | ctgctgcctc |
| 2041 | tgacagagct | gggggtgggg | gagccctggg | aggtagctat | gtgaagtgcc | tgagccttag |
| 2101 | gcattttctg | ataaattcca | tgccttttgt | gccccagtgt | accttaggat | ggtttaggca |
| 2161 | tttttttgtgt | ttggctggct | gtgagccctt | gggtcttggg | gggtggacat | gtgtgcttgt |
| 2221 | gtagctacgt | tgcttctgtg | cgggtctata | accctaattg | gaggtaacct | tgtaggtaaa |
| 2281 | tgtgtctcca | tgctctgtgt | tgtgtcacca | tgtgcccacg | ggcatgtctg | cctttgtctg |
| 2341 | tgctcgtgtg | tctgtgtgtg | tgctagtgtg | ttgtgcatgc | tcatggaggc | gttcatgtgc |
| 2401 | ctgttagtgt | agttgtgctg | tgttctaagg | cctcagtggg | cgggtgtctag | cactgtgggt |
| 2461 | acttgtttct | gtgccctgtt | ccaggaactg | tactgagtgg | ctttgcaggg | tgacagcatg |
| 2521 | gagtcctctt | ttcctgtctc | atactgggag | gtcttgtatg | gcagccactt | tcaaggggaa |
| 2581 | ctgtccctcc | taaatgagac | cgtacccccc | cacctgtctc | tcaatgctag | tcacagcgcc |
| 2641 | ttcctgcccc | ttggactcaa | ggtcaccatc | gtggggctct | acttggctgt | gtgcatcggg |
| 2701 | gggtcctctg | ggaactgcct | cgctcatgtat | gtcatctcca | ggtaggctgg | gccccatcag |
| 2761 | tctgtgaagg | gggaacctga | ggcaggaggc | tgttctgggt | gaatctgaac | aagtatggat |
| 2821 | ttctgtcttg | ctccatcaaa | tttctttcct | ctctgttcaa | ggggcatgag | cacccttgaa |
| 2881 | gttcaactcc | tgttctgtcc | ccatctgtct | cagactaggt | ggaggcttgg | agctgcagat |
| 2941 | aaattcatgc | catgatgtct | gtgtgaataa | cctcatgggt | acacaggatc | ctaggatttc |
| 3001 | tcaaacagag | gaagaggggc | tgggtgctgg | cctgaagctc | ttattcattg | acttttggga |

Figure 6 (cont.)

| | | | | | | |
|------|-------------|-------------|-------------|-------------|-------------|-------------|
| 3061 | tctctattca | tgggtggatgt | ctttagctga | gcccattgctc | tattgggtgct | cagaaatatg |
| 3121 | aaaatttggg | ggactagaaa | gaaaggcagc | agtactgggc | aactgagtca | gagtcaacag |
| 3181 | tgaggggata | ctggagggag | cagtatgagg | tgcagttctg | tggacacaaa | agctggacaa |
| 3241 | ggagtatgca | attggtaaaa | tgtgtcacgg | caatgatggg | ctctgttttt | ttccagctgg |
| 3301 | gagggcattg | agggggactg | gagacagcag | gtgaggactt | gaatgccaga | atggggacat |
| 3361 | tgggaagaca | tgggaggtcc | ttgaatgggt | aataactaga | gcaaggttct | tcactgatat |
| 3421 | atttcctctt | tcaaaaagat | gactctgaag | aaagcagtca | tgggtcccctt | gatggtatca |
| 3481 | tggtaggtgt | ggtgggtggt | gagaaaaggg | agtgcagggt | ctatattctg | cctcatcacg |
| 3541 | atcctcttag | tattcctgag | caactgtttt | ctccattcgt | tagatgggaa | atatggatta |
| 3601 | cataaccata | tataggtgca | tgtgcataca | cgtgtatata | gtataatatt | gatattgtgat |
| 3661 | tggacagtgt | agtaggaaaa | gccttccaa | tactgacttt | cagcagagga | tccttgtggg |
| 3721 | aaactattct | atgatctaag | tgttagagga | tattcatctt | tggcaagaa | tgcagcaacc |
| 3781 | tgggacagtt | tgtgagcctt | gccttcccct | cttgtcctca | gcatttctct | cccattttta |
| 3841 | ctgcatcagg | gcagacaagg | agcaccatct | tttccagtag | catcctcaga | gagctagtct |
| 3901 | caggaactgc | tgtggccaca | ctggctctgg | aggcaaaa | cggcgtgttt | gagttggcat |
| 3961 | acgccaggag | tcagaaaaac | ctgctctgag | ccccattttg | caccttcgca | gttccaagcc |
| 4021 | ttataaaaag | tacttacgtc | ctccgagcct | cagcttcctt | ctctgcagcc | tagggatcta |
| 4081 | atagcatttt | ttcttttggg | gtaaacctca | aatgagataa | aatctacgtg | aagagcttgg |
| 4141 | ctcagatata | taccattatc | gttggttattg | ttgtttattg | tagttaaggt | ctctaggatt |
| 4201 | aatgtctaag | aaacagaact | taatcccaga | ttccctgata | gcaactaaac | tatcatggac |
| 4261 | tactgttacc | tctagttcta | tcactaccat | accaccataa | ccactctaac | caccaccacc |
| 4321 | accaccatca | ctataatcac | ccttcccctac | cgctatcata | aacattaatt | cattccacta |
| 4381 | atattttatca | cttataatgt | ccctagcatg | gttcccgggtg | cttgataca | tcaaacctaa |
| 4441 | ctagcacatc | tcttgttttc | tttattagaa | ttaaaaaata | aattatgttt | atttatgtgt |
| 4501 | ctgtgtatgt | ctgtctggat | gtgtagggtca | gaggagaaa | ttgggtttct | ccttttacca |
| 4561 | tgtaatgttc | tccttctacc | acatgcgtcc | tggagataga | actcaggttg | tcagaattgg |
| 4621 | tagtaagtgc | ccttaccggc | tgagccattt | ggctggccca | gcattgtctg | ttttcattgc |
| 4681 | tagacaatac | tgtgcagttg | gaagacacag | atctttgatg | aactttacag | gcagtgcctt |
| 4741 | gaaaagcctc | tgagagaagt | cttaagagag | actgaggaga | gaagacagca | tctctctctc |
| 4801 | ttgattcatt | ccacaaactc | acattcaggt | tagatatgca | ctcaggtact | cctccatgcc |
| 4861 | cccaactttt | ccagggtagt | cttgtcattg | atttggaa | tttctgtaga | tgtcatagtc |
| 4921 | acatggggaa | gcttgtttaa | gtcccaggct | cagtggactt | tgggtgtggt | gcaggatctg |
| 4981 | ccattttaata | agcttccttg | gagactctgg | ggttgagaga | ttcaaagacc | ataaccctct |
| 5041 | tgggtggctcc | ttagctgcca | agtctacgca | aaatggccaa | atggagcctt | tcttctcctt |
| 5101 | gtcctctaca | ggcacaccaa | gatgaagaca | gctaccaaca | ttacatatt | taatctggca |
| 5161 | ctggctgata | ccctgggtctt | gctaacactg | cccttcagg | gcacagacat | cctactgggc |
| 5221 | ttctggccat | ttgggaatgc | actctgcaag | actgtcattg | ctatcgacta | ctacaacatg |
| 5281 | tttaccagca | cttttactct | gaccgccatg | agcgtagacc | gctatgtggc | tatctgccac |
| 5341 | cctatccgtg | cccttgatgt | tcggacatcc | agcaaaagcc | aggctgttaa | tgtggccata |
| 5401 | tgggccctgg | cttcagtggg | tgggtttcct | gttgccatca | tgggttcagc | acaagtggaa |
| 5461 | gatgaagggt | agtgggtggg | cctcctccct | gactcattag | tttcccatgg | ttcttgctgg |
| 5521 | tccctctgac | cccatttctc | tctgcagag | atcgagtggc | tgggtggagat | ccctgcccct |
| 5581 | caggactatt | ggggccctgt | attcgccatc | tgcattctcc | ttttttcctt | catcatccct |
| 5641 | gtgctgatca | tctctgtctg | ctacagcctc | atgattcgac | gacttcgtgg | tgtccgtctg |
| 5701 | ctttcaggct | cccgggagaa | ggaccgaaac | ctgcggcgta | tcactcgact | gggtctggta |
| 5761 | gtgggtggctg | tgtttgtggg | ctgctggacg | cctgtgcagg | tgtttgtcct | ggttcaagga |
| 5821 | ctgggtgttc | agccaggtag | tgagactgca | gttgccatcc | tgcgctctg | cacagccctg |
| 5881 | ggctatgtca | acagttgtct | caatcccatt | ctctatgctt | tcctggatga | gaacttcaag |
| 5941 | gcctgcttta | gaaagttctg | ctgtgcttca | tcctgcacc | gggagatgca | ggtttctgat |
| 6001 | cgtgtgcgga | gcattgccaa | ggatgttggc | cttgggtgca | agacttctga | gacagtacca |
| 6061 | cggccagcat | gactaggcgt | ggacctgccc | atgggtgctg | tcagcccaca | gagcccatct |
| 6121 | acacccaaca | cggagctcac | acaggtcact | gctctctagg | ttgaccctga | accttgagca |
| 6181 | tctggagcct | tgaatggcct | ttcttttggg | tcaggatgct | cagtcctaga | ggaagacctt |

Figure 6 (cont.)

| | | | | | | |
|------|------------|-------------|-------------|-------------|------------|-------------|
| 6241 | ttagcaccat | gggacaggtc | aaagcatcaa | ggtgggtctcc | atggcctctg | tcagattaag |
| 6301 | ttccctccct | ggtataggac | cagagaggac | caaaggaact | gaatagaaac | atccacaaca |
| 6361 | cagtggacat | gcctggtag | cccatgtagg | tattcatgct | tcacttgact | cttctctggc |
| 6421 | ttctccctgc | tgccctggct | ctagctgggc | tcaacctgag | gtattgtagt | ggtcagttag |
| 6481 | tcactcttgt | gactacatgt | tgtgtgctgt | tgctctcggc | ctttcagtat | ttccacagga |
| 6541 | ctgctgaaca | tacctggtat | tgcagtgggg | agcattaatt | ttctttttaa | gtgagactgg |
| 6601 | cccttaagct | tggcgttgcc | ttggagcgtc | ttctacttct | gacttcactg | atgcagtcag |
| 6661 | attacccgag | ggtgagcatc | agtggtttct | tggatggctg | ttttctgaag | attcttccca |
| 6721 | tccagtacat | ggagtctatg | aagggagtca | caattcatct | ggtactgcc | ctacctgctc |
| 6781 | tataatcctg | ggctatcttc | ttggcaagat | gacagtgggg | gagacaagac | acagagcttc |
| 6841 | cctaaggctc | tttccctcca | aaaccactgt | gaactcttat | cctacagact | gttcggcaag |
| 6901 | cactgcttct | aggtgtgtgg | gaggtaatca | ggagaaaagct | ttgtggcctc | tgtaggctgc |
| 6961 | tcacaacatg | gaggcaccac | atgctggctc | tgcctgctta | gtacaggcag | gacagagcag |
| 7021 | aatatgctct | ctctcgattc | tctacaaact | ccctcagttc | tccagcagag | tctcttttac |
| 7081 | ttgctatcag | aggtcaggag | ttgtactgct | agaagcatac | ttgtagcttg | ggaagagtgg |
| 7141 | cagtcaggat | gtgttctact | ctatatccac | agtgaccacc | tgcttcatat | ataggggttag |
| 7201 | gacatatctg | agtaaggcct | gagtgtgctg | ccaaattgga | ggttggtatg | agagctgatg |
| 7261 | cctaaagtgg | ctcatttgca | aggactatta | tggtttgga | tagcaatggg | cactggctcg |
| 7321 | cgaagaagag | tctatacctt | cgagatctat | ttgatgggtc | acagaagagg | ttttgtcaaa |
| 7381 | cgcccttcta | tgggtcagat | atcaaaatac | cagcaacggt | ggatagattc | tgacctttta |
| 7441 | ctgagacctc | ggtcagatgg | tttcatgtca | tgcagagaa | ctaggctggt | tctgtgtca |
| 7501 | gagagacctg | ggcttctggg | gaggccaggg | ttcttccttt | gacacttggt | cgggacgcgt |
| 7561 | tagctctaga | gttttcttgc | taatgctaag | aaactttgtg | aatttgtata | tctttatgta |
| 7621 | tttaagcatg | caacaagcgt | catttccatg | catgtagcta | gcctgaacc | tgctctggg |
| 7681 | gtaatgaagg | agtgtccta | acaaacactt | atccagtgc | cagtactgtc | catagcctaa |
| 7741 | gtgtttctga | ctccagctac | ataagagtaa | cttctgggt | attgatatgc | actgggatga |
| 7801 | ggcacagaac | caggttcatg | ggttttaaac | ctgttctgcc | cttgcaaggg | actttaagga |
| 7861 | acttcttgat | tgatgggagg | aaaactagtt | cctgggttgc | agaggctgct | gcctttcctt |
| 7921 | ctcccaagac | aatgactatc | ttttctcccc | acactcagga | acagtgggta | gatgcctttc |
| 7981 | ttcacagttt | ttctttgtag | actcttgctg | cttgagcaaa | tctaaaagga | gttgtgggtga |
| 8041 | tcagagcaga | ggacccttct | ctgggtggcag | agcaacccta | tgctatagag | atctaccccc |
| 8101 | tggctcttgt | ctgtgtaggc | ccaatctggc | tcaattgacc | ctctggcaga | tggcccttat |
| 8161 | caggggggct | ttgaagaggg | tcttacttgc | caaagcgtt | gctttcagta | cagagctggg |
| 8221 | gagccaaagc | ttgggttttat | acaagtttta | atgacattgt | ccatttgttt | tttgtttttt |
| 8281 | agtctagcag | tttataatca | aaaggatatga | atttctaata | ggcttaaaag | atgcagccca |
| 8341 | tgcaggcatg | gtggattgga | ttctatgaga | tt | | |

Figure 7

SEQ ID NO:10

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1      ctgcacagcc cctcctttctc tcagccgcag ccttctgccc ctcccccttc tggetgcegc
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121    gccgcagcag accccaatct agagtgcagag tcattgctca gtccactgtg ctectgectg
181    cccgcctttc tgctaagcat tgggggtctat tttggcccag cttctgaaga ggctgtgtgt
241    gccgttggag gaactgtact gagtggcttt gcagggtgac agcatggagt cctcttttcc
301    tgctccatac tgggaggtct tgtatggcag ccactttcaa gggaaacctgt cctccctaaa
361    tgagaccgta ccccaccacc tgctcctcaa tgctagtcac agcgcttcc tgcccttggg
421    actcaaggtc accatcgtgg ggctctactt ggctgtgtgc atcggggggc tcctggggaa
481    ctgcctcgtc atgtatgtca tcctcagctg ggagggcatt gagggggact ggagacagca
541    gacaatactg tgcagttgga agacacagat ctttgatgaa ctttacaggc agtgccctga
601    aaagcctctg agagaagtct taagagagac tgaggagaga agacagctac tctctctctt
661    gattcattcc acaaactcac attcaggcac accaagatga agacagctac caacatttac
721    atattttaatc tggcactggc tgataccctg gtcttgctaa cactgcctt ccagggcaca
781    gacatcctac tgggcttctg gccatttggg aatgcactct gcaagactgt cattgtctatc
841    gactactaca acatgtttac cagcactttt actctgaccg ccatgagcgt agaccgctat
901    gtggctatct gccaccctat ccgtgccctt gatgttcgga catccagcaa agcccaggct
961    gttaatgtgg ccatatgggc cctggcttca gtggttggtg ttctgtttgc catcatgggt
1021   tcagcacaag tggagatga agagatcgag tgcttggtg agatccctgc cctcaggac
1081   tattggggcc ctgtattcgc catctgcac ttcctttttt ctttcacat cctgtgctg
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1201   ggctcccggg agaaggaccg aaacctgcgg cgtatcactc gactggtgct ggtagtgggt
1261   gctgtgtttg tgggctgctg gacgctgtg caggtgtttg tcctggttca aggactgggt
1321   gttcagccag gtagtgagac tgcagttgcc atcctgcgct tctgcacagc cctgggctat
1381   gtcaacagtt gtctcaatcc cattctctat gctttcctgg atgagaactt caaggcctgc
1441   tttagaaagt tctgctgtgc ttcacccctg caccgggaga tgcaggttcc tgatcgtgtg
1501   cggagcattg ccaaggatgt tggccttggt tgcaagactt ctgagacagt accacggcca
1561   gcatga

```

Figure 8
SEQ ID NO:11

MESLFPAPYWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGLYLAVCIGGLLGN
CLVMYVILSWEGEGDWRQQTILCSWKTQIFDELYRQCPEKPLREVLRETEERRQHLSLIHSTNSH
SGTPR

Figure 9
SEQ ID NO:12

```
1      ctgcacagcc cctccttctc tcagccgcag cttctgccc ctcccccttc tggctgccgc
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121    gccgcagcag accccaatct agagtgcagag tcattgctca gtccactgtg ctctgcctg
181    cccgcctttc tgctaagcat tggggtctat tttggcccag cttctgaaga ggctgtgtgt
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301    tgctccatac tgggaggtct tgtatggcag ccactttcaa gggaaacctgt ccctcctaaa
361    tgagaccgta ccccaccacc tgctcctcaa tgctagtcac agcgcccttc tggcccttgg
421    actcaaggtc accatcgtgg ggctctactt ggctgtgtgc atcggggggc tcctggggaa
481    ctgctcgtc atgtatgtca tcctcagctg ggagggcatt gagggggact ggagacagca
541    ggcacaccaa gatgaagaca gctaccaaca ttacatatt taatctggca ctggctgata
601    ccctggctct gctaacaactg cccttcagg gcacagacat cctactgggc ttctggccat
661    ttgggaatgc actctgcaag actgtcattg ctatcgacta ctacaacatg tttaccagca
721    cttttactct gaccgccatg agcgtagacc gctatgtggc tatctgccac cctatccgtg
781    cccttgatgt tcggacatcc agcaaagccc aggctgttaa tgtggccata tgggccctgg
841    cttcagtggg tgggtgttct gttgccatca tgggttcagc acaagtggaa gatgaagaga
901    tcgagtgcct ggtggagatc cctgccccctc aggactattg gggccctgta ttcgccatct
961    gcactcttct ttttctcttc atcatccctg tgctgatcat ctctgtctgc tacagcctca
1021   tgattcgacg acttcgtggg gtccgtctgc tttcaggctc ccgggagaag gaccgaaacc
1081   tgccgcgtat cactcgactg gtgctggtag tgggtggctgt gtttgtgggc tgctggacgc
1141   ctgtgcaggg gtttgtctct gttcaaggac tgggtgttca gccaggtagt gagactgcag
1201   ttgccatcct gcgcttctgc acagccctgg gctatgtcaa cagttgtctc aatccccattc
1261   tctatgcttt cctggatgag aacttcaagg cctgctttag aaagtctctc tgtgcttcat
1321   ccctgcaccg ggagatgcag gtttctgacg gtgtgcggag cattgccaa g gatgtggcc
1381   ttggttgcaa gacttctgag acagtaccac ggccagcatg a
```

Figure 10
SEQ ID NO:13

MESLFPAPYWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGLYLAVCIGGLLGNCLVMY
VILSWEGIEGDWRQQAHQDEDSYQHLHI

Figure 11

SEQ ID NO:14

```

1      ctgcacagcc cctccttctc tcagccgcag ccttctgccc ctcccccttc tggtgccgc
61     accggtgct gcgtctagtc aatatcttat cttccgagca ggagctagga gccattccca
121    gccgcagcag accccaatct agagtgcag tcattgctca gtccactgtg ctctgcctg
181    cccgcctttc tgctaagcat tggggcttat tttggcccag cttctgaaga ggctgtgtgt
241    gccgttggag gaactgtact gagtggcttt gcagggtgac agcatggagt cctcttttcc
301    tgctccatac tgggaggtct tgtatggcag ccactttcaa gggaaacctgt ccttcctaaa
361    tgagaccgta ccccaccacc tgctcctcaa tgctagtcac agcgccttcc tgccccctgg
421    actcaaggtc accatcgtgg ggctctactt ggctgtgtgc atcggggggc tcctggggaa
481    ctgcctcgtc atgtatgtca tcctcaggca caccaagatg aagacagcta ccaacattta
541    catatttaat ctggcactgg ctgataccct ggtcttgcta acactgccct tccagggcac
601    agacatccta ctgggcttct ggccatttgg gaatgcactc tgcaagactg tcattgctat
661    cgactactac aacatgttta ccagcacttt tactctgacc gccatgagcg tagaccgcta
721    tgtggctatc tgccacccta tccgtgccct tgatgttcgg acatccagca aagcccaggc
781    tgttaatgtg gccatatggg ccttggttcc agtggttggg gttcctgttg ccatcatggg
841    ttcagcacia gtggaagatg aagagatcga gtgcctgggt gagatccctg cccctcagga
901    ctattggggc cctgtattcg ccactgcac cttccttttt tccttcacat tcctgtgct
961    gatcatctct gtctgctaca gcctcatgat tcgacgactt cgtgggtgtcc gtctgcttcc
1021   aggctcccgg gagaaggacc gaaacctgcg gcgtatcact cgactgggtc tggtagtggt
1081   ggctgtgttt gtgggctgct ggacgcctgt gcaggtgttt gtctgggtc aaggactggg
1141   tgttcagcca ggtagtgaga ctgcagttgc catcctgcgc ttctgcacag ccctgggcta
1201   tgtcaacagt tgtctcaatc ccattctcta tgctttcctg gatgagaact tcaaggcctg
1261   ctttagaaaag ttctgctgtg cttcatccct gcaccgggag atgcagggtt ctgatcgtgt
1321   gcggagcatt gccaaaggat ttggccttgg ttgcaagact tctgagacag taccacggcc
1381   agcatga

```

Figure 12
SEQ ID NO:15

MESLFPAPYWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGLYLAVCIGGLLGNCLVMY
VILRHTKMKATATNIYIFNLALADTLVLLTLFPQGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTAMS
VDRYVAICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPAPQDYWGPVFA
ICIFLFSFIIPVLIISVCYSLMIRRLRGVRLLSGSREKDRNLRRITRLVLVVAVFVGCWTPVQVFVLVQG
LGVQPGSETAVAILRFCTALGYVNSCLNPILYAFLDENFKACFRKFCCASSLHREMQVSDRVRSIAKDVGL
GCKTSETVPRPA

Figure 13
SEQ ID NO:16

```
1      ctgcacagcc cctccttctc tcagccgcag cttcttgccc ctcccccttc tggctgccgc
61     accggctgct gcgtctagtc aatatcttat cttccgagca ggagctagga gccattccca
121    gccgcagcag accccaatct agagtgcagag tcattgctca gtccactgtg ctctgcctg
181    cccgcctttc tgctaagcat tggggctctat tttggcccag cttctgaaga ggctgtgtgt
241    gccgttggag gaactgtact gagtggcttt gcagggtgac agcatggagt cctcctttcc
301    tgctccatac tgggaggtct tgtatggcag ccactttcaa gggaacctgt ccttcctaaa
361    tgagaccgta ccccaccacc tgctcctcaa tgctagtcac agcgccttcc tgccccttgg
421    actcaaggtc accatcgtgg ggctctactt ggctgtgtgc atcggggggc tcttggggaa
481    ctgcctcgtc atgcacacca agatgaagac agctaccaac atttacatat ttaatctggc
541    actggtgat accctggtct tgctaacact gcccttccag ggcacagaca tctactggg
601    cttctggcca tttgggaatg cactctgcaa gactgtcatt gctatcgact actacaacat
661    gtttaccagc acttttactc tgaccgccat gagegtagac cgctatgtgg ctatctgcca
721    ccctatecgt gcccttgatg ttccggacatc cagcaaagcc caggctgtta atgtggccat
781    atgggcccctg gcttcagtgg ttgggtgttcc tgttgccatc atgggttcag cacaagtgga
841    agatgaagag atcgagtgcc tgggtggagat cctgccccct caggactatt ggggcccctgt
901    attcgccatc tgcattcttc ttttttcctt catcatccct gtgctgatca tctctgtctg
961    ctacagcctc atgattcgac gacttcgtgg tgccgtctg ctttcaggct cccgggagaa
1021   ggaccgaaac ctgcccgtga tcaactgact ggtgctggta gtggtggctg tgtttgtggg
1081   ctgctggacg cctgtgcagg tgtttgtcct ggttcaagga ctgggtgttc agccaggtag
1141   tgagactgca gttgccatcc tgcgcttctg cacagccctg ggctatgtca acagttgtct
1201   caateccatt ctctatgctt tcttgatga gaacttcaag gcctgcttta gaaagtctctg
1261   ctgtgcttca tccctgcacc gggagatgca ggtttctgat cgtgtgcgga gcattgccaa
1321   ggatgttggc cttggttgca agacttctga gacagtacca cggccagcat ga
```

Figure 14
SEQ ID NO:17

MESLFPAPYWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGLYLAVCIGGLLGNCLVMH
TKMKTATNIYIFNLALADTLVLLTLPPFGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTAMSVDRYV
AICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPAPQDYWGPVFAICIFL
FSFIIPVLIISVCYSLMIRRLRGVRLLSGSREKDRNLRRITRLVLVVAVFVGCWTPVQVFVLVQGLGVQP
GSETAVAILRFCTALGYVNSCLNPILYAFLDENFKACFRKFCCASSLHREMQVSDRVRSIAKDVGLGCKTS
ETVPRPA

Figure 15
SEQ ID NO:18

```
1      gctcatggag gcgttcatgt gcctgttagt gtagttgtgc tgtgttctaa ggccctcagtg
61     gacggtgtct agcactgtgg ttacttgttt ctgtgccctg ttccaggaac tgtactgagt
121    ggctttgcag ggtgacagca tggagtcctt ctttcctgct ccatactggg aggtcttgta
181    tggcagccac tttcaaggga acctgtccct cctaaatgag accgtacccc accacctgct
241    cctcaatgct agtcacagcg ccttcctgcc ccttggactc aaggtcacca tcgtggggct
301    ctacttggtt gtgtgcatcg gggggctcct ggggaactgc ctcgtcatgt atgtcatcct
361    cagctgggag ggcattgagg gggactggag acagcaggca caccaagatg aagacagcta
421    ccaacattta catatttaa
```

Figure 16
SEQ ID NO:19

```
1      gctcatggag gcgttcatgt gcctgttagt gtagttgtgc tgtgttctaa ggctcagtg
61     gacggtgtct agcactgtgg ttacttgttt ctgtgccctg ttccaggaac tgtactgagt
121    ggctttgcag ggtgacagca tggagtccct ctttcctgct ccatactggg aggtcttgta
181    tggcagccac ttccaaggga acctgtccct cctaaatgag accgtacccc accacctgct
241    cctcaatgct agtcacagcg ctttcctgcc ccttggaactc aaggtcacca tcgtggggct
301    ctacttggtc gtgtgcatcg gggggctcct ggggaactgc ctcgtcatgt atgtcatcct
361    caggcacacc aagatgaaga cagctaccaa catttacata tttaatctgg cactggctga
421    taccctggtc ttgctaacac tgcccttcca gggcacagac atcctactgg gcttctggcc
481    atttgggaat gcactctgca agactgtcat tgctatcgac tactacaaca tgttaccag
541    cacttttact ctgaccgcca tgagcgtaga ccgctatgtg gctatctgcc accctatccg
601    tgcccttgat gttcggacat ccagcaaagc ccaggctgtt aatgtggcca tatgggccct
661    ggcttcagtg gttggtgttc ctgttgccat catgggttca gcacaagtgg aagatgaaga
721    gatcgagtgc ctggtggaga tccctgcccc tcaggactat tggggccctg tattcgccat
781    ctgcattctc cttttttcct tcatcatccc tgtgctgac atctctgtct gctacagcct
841    catgattcga cgacttcgtg gtgtccgtct gctttcaggc tcccgggaga aggaccgaaa
901    cctgcggcgt atcactcgac tgggtgctgg agtggtggct gtgtttgtgg gctgctggac
961    gcctgtgcag gtgtttgtcc tggttcaagg actgggtgtt cagccaggta gtgagactgc
1021   agttgccatc ctgcgttctt gcacagccct gggctatgtc aacagtgtgc tcaatcccat
1081   tctctatgct ttctggatg agaacttcaa ggctgcttt agaaagtctt gctgtgcttc
1141   atccctgcac cgggagatgc aggtttctga tcgtgtgcgg agcattgcca aggatgttgg
1201   ccttggttgc aagacttctg agacagtacc acggccagca tga
```

Figure 17

SEQ ID NO:20

```

1      gctcatggag gcgttcatgt gcctgttagt gtagttgtgc tgtgtttctaa ggccctcagt
61     gacggtgtct agcactgtgg ttacttgttt ctgtgccctg ttccaggaac tgtactgagt
121    ggctttgcag ggtgacagca tggagtcctt ctttcctgct ccatactggg aggtcttgta
181    tggcagccac tttcaaggga acctgtccct cctaaatgag accgtacccc accacctgct
241    cctcaatgct agtcacagcg ccttcctgcc ccttggaactc aaggtcacca tcgtggggct
301    ctacttggct gtgtgcatcg gggggctcct ggggaactgc ctcgtcatgc acaccaagat
361    gaagacagct accaacattt acatatttaa tctggcactg gctgataccc tggctcttgc
421    aacactgccc ttccagggca cagacatcct actgggcttc tggccatttg ggaatgcact
481    ctgcaagact gtcattgcta tcgactacta caacatgttt accagcactt ttactctgac
541    cgccatgagc gtagaccgct atgtggctat ctgccaccct atccgtgccc ttgatgttcg
601    gacatccagc aaagcccagg ctgttaatgt ggccatatgg gccctggctt cagtggttgg
661    tgttcctggt gcctatcatgg gttcagcaca agtgggaagat gaagagatcg agtgcctggt
721    ggagatccct gcctcctcagg actattgggg ccctgtattc gccatctgca tcttcctttt
781    ttcccttcac atccctgtgc tgatcatctc tgtctgctac agcctcatga ttcgacgact
841    tcgtgggtgc cgtctgcttt caggetcccg ggagaaggac cgaaacctgc ggcgtatcac
901    tcgactgggt ctggtagtgg tggctgtgtt tgtgggctgc tggacgctg tgcaggtgtt
961    tgtcctgggt caaggactgg gtgttcagcc aggtagttag actgcagttg ccatcctgcg
1021   cttctgcaca gcctgggct atgtcaacag ttgtctcaat ccattctct atgctttcct
1081   ggatgagaac ttcaaggcct gctttagaaa gttctgctgt gcttcatccc tgcaccggga
1141   gatgcagggt tctgatcgtg tgcggagcat tgccaaggat gttggccttg gttgcaagac
1201   ttctgagaca gtaccacggc cagcatga

```

Figure 18
SEQ ID NO:21

```
1      getcatggag gcgttcatgt gctgttagt gtagttgtgc tgtgttctaa ggccctcagtg
61     gacggtgtct agcactgtgg ttacttgttt ctgtgccctg ttccaggaac tgtactgagt
121    ggctttgcag ggtgacagca tggagtccct ctttcctgct ccatactggg aggtcttgta
181    tggcagccac tttaaggga actgtccct cctaaatgag accgtacccc accacctgct
241    cctcaatgct agtcacagcg ctttcctgcc ccttggaactc aaggtcacca tcgtggggct
301    ctacttggt gtgtgcatcg gggggctcct ggggaactgc ctgctcatgt atgtcatcct
361    cagagatcga gtgcctggtg gagatccctg cccctcagga ctattggggc cctgtattcg
421    ccatctgcat cttccttttt tccttcacatc tcctgtgct gatcatctct gtctgctaca
481    gcctcatgat tcgacgactt cgtggtgtcc gtctgctttc aggcctcccgg gagaaggacc
541    gaaacctgcg gcgtatcact cgactggtgc tggtagtggg ggctgtgttt gtgggctgct
601    ggacgcctgt gcaggtgttt gtccctggttc aaggactggg tgttcagcca ggtagtgaga
661    ctgcagttgc catcctgcgc ttctgcacag ccctgggcta tgtcaacagt tgtctcaatc
721    ccattctcta tgctttcctg gatgagaact tcaaggcctg ctttagaaag ttctgctgtg
781    cttcatccct gcaccgggag atgcaggttt ctgatcgtgt gcggagcatt gccaaaggatg
841    ttggccttgg ttgcaagact tctgagacag taccacggcc agcatga
```

Figure 19

SEQ ID NO:22

```

1      cctgctctgc acctgtcgtc gactgccagc cggctgaggg cgggggtctc cacggtgggtc
51     ccagctccca aggaggttgc agaagtaccg tacagagtgg atttgacaggg cagtggcatg
121    gagccctctt tccccgcgcc gttctgggag gttatctacg gcagccacct tcagggcaac
181    ctgtccctcc tgagcccca ccacagtctg ctgccccgc atctgctgct caatgccagc
241    cacggcgctt tcttccccct cgggtcgaag gtcaccatcg tggggctcta cctggccgtg
301    tgtgtcggag ggctcctggg gaactgcctt gtcagtacg tcatcctcag gcacacaaaa
361    atgaagacag ccaccaatat ttacatcttt aacctggccc tggccgacac tctggtcctg
421    ctgacgtgct ccttccaggg caccgacatc ctctggggt tctggccgtt tgggaatgag
481    ctgtgcaaga cagtcattgc cattgactac tacaacatgt tcaccagcac cttcaccccta
541    actgccatga gtgtggatcg ctatgtagcc atctgccacc ccatccgtgc cctcgacgtc
601    cgcacgtcca gcaaagccca ggctgtcaat gtggccatct gggccctggc ctctgttgct
661    ggtgttcccc ttgccatcat gggctcggca caggctcagg atgaagagat cgagtgcctg
721    gtggagatcc ctacccctca ggattactgg ggcccgggtg ttgccatctg catcttccctc
781    ttctccttca tgcctcccggt gctcgtcatc tctgtctgct acagcctcat gatccggcgg
841    ctccgtggag tccgcctgct ctccgggtcc cgagagaagg accggaacct gcggcgcac
901    actcggctgg tgcgtggtgt agtggctgtg ttctgtgggt gctggacgcc tgtccaggctc
961    ttctgtctgg cccaagggtt ggggggttcag ccgagcagcg agactgccgt ggccattctg
1021   cgcttctgca cggccctggg ctacgtcaac agctgcctca acccatcct ctacgccttc
1081   ctggatgaga acttcaaggc ctgcttccgc aagttctgct gtgcatctgc cctgcgccgg
1141   gacgtgcagg tgtctgaccg cgtgcgcagc attgccaagg acgtggccct ggccctgcaag
1201   acctctgaga cgggtaccgc gcccgcata ctaggcgtgg acctgcccac ggtgcctgtc
1261   agcccgacga gccatctac gcccaacaca gagctcacac aggtcactgc tctctaggcg
1321   gacacacctt gggccctgag catccagagc ctgggatggg cttttccctg tgggccaggg
1381   atgctcgggt ccagaggagg acctagtgc atcatgggac aggtcaaagc attagggcc
1441   cctccatggc ccagacaga ctaaagctgc cctcctggtg cagggcagag gggacacaag
1501   gacctacctg gaagcagctg acatgctggt ggacggccgt tactggagcc cgtgccccctc
1561   cctccccgtg cttcatgtga ctcttggcct ctctgctgct gcgttggcag aacctgggt
1621   gggcaggcac cggaggagg agcagcagct gtgtcatcct gtgccccca tgtgtgtgt
1681   gctgtttgca tggcagggtt ccagctgctt tcagcctgt gacgtctcct cagggcagct
1741   ggacaggctt ggcacggccc gggaagtga gcaggcagct tttctttggg gtgggacttg
1801   ccctgagctt ggagctgcca cctggaggac ttgcctgttc cgactccacc tgtgcagccg
1861   gggccacccc aggagaaaagt gtccagggtg gggctggcag tccctggctg cagacccga
1921   gctggccctc ggaccgcacc tctgaagggt ttctgtgtgc tgcacgggtg aggcctcatc
1981   cctgactgca gcttgactct gggcccaacc cccatttccc ttcaggagac cagcgagagg
2041   ccctggccat cctccagcg gtgcaatgaa ctatatgctg tggaccgtca acccagccct
2101   gcttctcagt gtggggcagg tgtctcagga cgaaggcgcc gcgtgaccac atgggcagct
2161   ctgttcacaa agtgagggcc tcgttttctt ggtcttgact gctctgtttg ggtgggagaa
2221   gattctctgg gggccccac atcctcccaa ggctccctc acagcctctc ctttgcttga
2281   agccagaggt cagtggccgt gctgtgttgc ggggaagctg tgtggaagga gaagctgggtg
2341   gccacagcag agtctgtctc tggggacgcc tgcttcattt acaagcctca agatggctct
2401   gtgtagggcc tgagcttgct gcccacggg aggatggctt cacagcagag ccagcatgag
2461   ggggtggggc tggcagggtt tgcttgagcc aaactgcaaa ggctgtggtg gctgtgagga
2521   cactgcgggg gttg

```

Figure 20
SEQ ID NO:23

MESLFPAPYWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGLYLAVCI GGLIGN
CLVMYVILRDRVPGGDPCPSGLLGPCIRHLHLPFFLHHPCADHLCILQPHDSTTSWCPSAFRLPGE
GPKPAAYHSTGAGSGGCVCGLLDACAGVCPGSRTGCSAR